Fuel Pump Durability Testing

Ten (10) test stands are currently available with each typically containing up to sixteen units. Conventional, alternative, and diesel fuel can be accommodated. Temperature, pressure, operating voltage, pump current, and voltage (for each sample) are continuously logged throughout the test. Fuel temperatures are controlled and can range from -40 °C to 60°C.

Available Fuel Pump Durability Procedures:

- Alternative Fuel Validation
- Contamination
- Corrosion Resistance
- Dry Running
- High Voltage
- Thermal Cycle
- Vibration
- and more…
Fuel Pump Performance Testing

*iEL* has successfully developed test equipment and procedures that are capable of correlating with our client’s in-house stands. In addition to standard performance conditions, NVH characteristics can be quantified using techniques that are generally unavailable elsewhere. Recorded parameters include the following: Voltage, Pressure, Current, Flow, Temperature, and RPM.

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**Available Fuel Pump Performance Procedures:**

- Check Valve
- Deadhead System Pressure
- Forward Leakage
- Hot Idle Stability
- Magnetic Cold Knockdown
- NVH Characteristics
- Performance at Standard Conditions
- Performance During Cold Starts
- Performance During Low Temperature
- Performance With Temperature
- Pressure Pulsation
- Pressure Rise Time
- Pump Mapping
- Vapor Lock

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**Direct Injection High Pressure Pump Applications:**

With our on-site design team, *iEL* can easily design and build the required spin fixturing necessary to accommodate Direct Injection High Pressure Pumps. We not only offer complete durability testing but also performance testing for our clients.